

PR Number: 4200560370

If Service, POP:

Requirements:

| Part Number  | Description                            | Qty |  |  |  |
|--------------|--|-----|--|--|--|
| MDX-540      | CNC Modeling Machine                   | 1   |  |  |  |
| ZCL-540      | Rotary 4th axis unit                   | 1   |  |  |  |
| ZBX-540E     | Safety Cover for MDX-540               | 1   |  |  |  |
| ZTT-540      | T-Slot Table for MDX-540               | 1   |  |  |  |
| US-EY16-3-5A | EY-Collet Chuck 3.0-3.5mm MDX-540      | 2   |  |  |  |
| US-EY16-5A   | EY-Collet Chuck 4.0-5.0mm MDX-540      | 2   |  |  |  |
| US-EY16-7A   | EY-Collet Chuck 6.0-7.0mm MDX-500/650  | 2   |  |  |  |
| US-EY16-10A  | EY-Collet Chuck 9.0-10.0mm MDX-500/650 | 2   |  |  |  |
| EM-KIT-LR    | Long Reach Tool Set                    | 2   |  |  |  |
| EM-KIT-SR    | Short Reach Tool Set                   | 2   |  |  |  |
| ST-049       | Grease gun and grease                  | 2   |  |  |  |
| MILLFOAM-10  | 10" Urethane foam blanks               | 3   |  |  |  |
| MILLFOAM-6   | 6" urethane foam blanks                | 3   |  |  |  |
|              | Installation & Training Session        | 1   |  |  |  |
|              | 1 yr extended warranty                 | 1   |  |  |  |

GSA Schedule?

If so, GSA Contract Number:

**SIMPLIFIED ACQUISITION  
BRAND NAME JUSTIFICATION FAR 13.106-1(b)  
(\$3k to \$150K)**

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**Purchase Request:**

NASA requires the Roland MDX-540 Desktop CNC, Roland GS-24 Desktop Cutter, and their accessories. The MDX-540 is a desktop CNC machine, and the Roland GS-24 is a desktop vinyl cutter. When looking for desktop CNCs and vinyl cutters, we wanted the following:

*Desktop CNC ~*

- Matches current Roland Brand at NASA Ames
  - Ames has the smaller version of the MDX-540. Even though they are different models, they share the same proprietary CAM Roland software (SRP Player) that is used to automate the prototyping process.
  - Having the same software will help with cross-center collaboration.
  - This will enable Armstrong to send/receive files/projects from other centers.
  - Armstrong could also benefit from the experience of other centers using this machine/software which could lead to decreased setup times, maintenance, and operational time.
  - If the government procured a different Desktop CNC, we would experience increased setup, maintenance, and operational time. This could lead to an increase in cost and a decrease in the cross-collaboration efforts between the NASA centers.
- Easy to use
  - Software takes five steps to start the milling process.
- Bigger working volume than the Carbide Nomad 883 Desktop Mill
  - We need a desktop CNC that can handle bigger projects.
  - The MDX-540 has a working volume of 19.6(X) x 15.7(Y) x 6.1"(Z). The Carbide Nomad 3D has 8 (X) x 8 (Y) x 3" (Z) of working volume.
  - The Nomad is the other desktop top mill that we are trying to purchase. The Nomad will handle smaller milling projects.

*Vinyl Cutter ~*

- Matches current make and model at NASA Ames
  - The machines have the same proprietary Roland Cutstudio software that is used to automate the process.
  - Having the same software will help with cross-center collaboration.
  - This will enable Armstrong to send/receive files/projects from other centers.
  - Armstrong could also benefit from the experience of other centers using this machine/software which could lead to decreased setup times, maintenance, and operational time.
  - If the government procured a different vinyl cutter, we would experience increased setup, maintenance, and operational time. This could lead to an increase in cost and a decrease in the cross-collaboration efforts between the NASA centers.

Market research indicates at this time other companies' similar products, or products lack the particular feature, do not meet, or cannot be modified to meet, the agency's needs by the required date.

**SIMPLIFIED ACQUISITION  
BRAND NAME JUSTIFICATION FAR 13.106-1(b)  
(\$3k to \$150K)**

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As the Contracting Officer I have determined that purchasing the Roland MDX-540 Desktop CNC, Roland GS-24 Desktop Cutter, and their accessories are essential to the Government's requirements, thereby precluding consideration of a product manufactured by another company and justifiable under FAR 13.106-1(b).

  
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Joel Lozano, Contracting Officer

8-6-15  
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Date